



California State Fire Marshal
National Fire Incident Reporting System

Data as of: 01/28/2008 2:31:26PM

FDID Range:
0 to No Upper Bound

Incident Date Range:
01/01/2003 to 12/31/2007

Incident Type:
111 to 123

Detector Effectiveness:
1 to No Upper Bound

Detection System Effectiveness, 2003-2007

<u>Incident Year</u>	<u>Detector Effectiveness</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003									
	Alerted Occupants								
		Combination smoke - heat	92	\$830,545	\$746,785	3	0	0	0
		Heat	13	\$144,500	\$70,700	0	0	0	0
		More than 1 type present	26	\$187,000	\$61,253	3	0	0	0
		Other	14	\$71,505	\$26,512	0	0	0	0
		Smoke	785	\$15,589,156	\$4,893,773	12	0	38	3
		Sprinkler, water flow detection	47	\$1,130,900	\$2,436,670	1	0	0	0
		Undetermined	71	\$721,150	\$226,267	0	0	5	0
		Subtotal	1,048	\$18,674,756	\$8,461,960	19	0	43	3
	Failed to alert occupants								
		More than 1 type present	2	\$0	\$0	0	0	0	0
		Smoke	35	\$1,432,900	\$444,414	3	0	3	1
		Undetermined	6	\$150,600	\$61,600	0	0	1	0
		Subtotal	43	\$1,583,500	\$506,014	3	0	4	1
	No occupants								
		Combination smoke - heat	16	\$289,028	\$98,200	1	0	0	0
		Heat	3	\$202,000	\$402,000	0	0	0	0
		More than 1 type present	5	\$105,500	\$101,500	1	0	0	0
		Other	6	\$58,000	\$50,000	0	0	0	0
		Smoke	177	\$3,612,130	\$1,567,690	4	0	2	0
		Sprinkler, water flow detection	15	\$3,238,000	\$3,290,200	4	0	0	0
		Undetermined	16	\$433,335	\$95,650	0	0	0	0
		Subtotal	238	\$7,937,993	\$5,605,240	10	0	2	0
	Occupants failed to respond								
		Combination smoke - heat	6	\$0	\$1,000	0	0	0	0

Detection System Effectiveness, 2003-2007

<u>Incident Year</u>	<u>Detector Effectiveness</u>	<u>Detector Type</u>		<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>	
2003	Undetermined	Smoke		26	\$675,800	\$279,700	0	0	3	1	
		Sprinkler, water flow detection		1	\$0	\$15,000	0	0	0	0	
		Undetermined		2	\$4,500	\$1,500	0	0	0	0	
		Subtotal		35	\$680,300	\$297,200	0	0	3	1	
		Combination smoke - heat		3	\$375,000	\$175,000	1	0	0	0	
		Heat		2	\$57,500	\$95,500	0	0	0	0	
		Other		2	\$4,000	\$20,000	0	0	0	0	
		Smoke		73	\$1,473,985	\$1,041,150	2	0	0	1	
		Sprinkler, water flow detection		4	\$355,300	\$3,045,050	0	0	2	0	
		Undetermined		7	\$25,000	\$23,250	0	0	2	0	
	Subtotal		91	\$2,290,785	\$4,399,950	3	0	4	1		
	Total		1,455	\$31,167,334	\$19,270,364	35	0	56	6		
	2004										
	Alerted Occupants	Combination smoke - heat		81	\$1,912,405	\$516,235	0	0	2	0	
		Heat		20	\$36,901	\$25,092	0	0	0	0	
More than 1 type present			44	\$908,100	\$154,900	0	0	2	0		
Other			10	\$187,100	\$74,300	0	0	0	0		
Smoke			1,199	\$23,808,934	\$9,648,630	10	0	61	3		
Sprinkler, water flow detection			44	\$1,496,800	\$646,700	0	0	0	0		
Undetermined			92	\$2,156,506	\$869,060	1	0	9	0		
Subtotal			1,490	\$30,506,746	\$11,934,917	11	0	74	3		
Failed to alert occupants											
Heat			2	\$75,000	\$100,000	0	0	0	0		
More than 1 type present			2	\$50,000	\$75,000	0	0	0	0		
Smoke			39	\$990,750	\$378,611	0	0	5	1		
Undetermined			5	\$1,450	\$0	0	0	0	0		
Subtotal			48	\$1,117,200	\$553,611	0	0	5	1		
No occupants											
Combination smoke - heat		10	\$217,020	\$71,750	0	0	0	0			
Heat		9	\$1,152,500	\$387,500	0	0	0	0			
More than 1 type present		11	\$186,500	\$79,500	0	0	0	0			
Other		3	\$200,000	\$115,000	0	0	0	0			

Detection System Effectiveness, 2003-2007

<u>Incident Year</u>	<u>Detector Effectiveness</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Smoke	257	\$8,315,835	\$2,476,300	10	0	4	0
		Sprinkler, water flow detection	27	\$382,500	\$1,075,501	1	0	0	0
		Undetermined	28	\$2,039,350	\$1,068,400	1	0	0	0
		Subtotal	345	\$12,493,705	\$5,273,951	12	0	4	0
	Occupants failed to respond								
		Combination smoke - heat	3	\$500	\$0	0	0	0	0
		Heat	1	\$100,000	\$50,000	0	0	0	0
		More than 1 type present	3	\$10,500	\$5,220	0	0	0	0
		Smoke	40	\$276,300	\$91,425	0	0	1	1
		Sprinkler, water flow detection	2	\$500	\$0	0	0	0	0
		Undetermined	7	\$3,100	\$1,650	0	0	0	0
		Subtotal	56	\$390,900	\$148,295	0	0	1	1
	Undetermined								
		Combination smoke - heat	3	\$700,000	\$200,100	0	0	0	0
		Heat	4	\$770,000	\$351,500	0	0	0	0
		More than 1 type present	1	\$100,000	\$80,000	1	0	0	0
		Smoke	120	\$5,967,250	\$2,023,975	0	0	9	2
		Sprinkler, water flow detection	3	\$33,500	\$10,500	0	0	0	0
		Undetermined	18	\$168,800	\$61,005	0	0	1	0
		Subtotal	149	\$7,739,550	\$2,727,080	1	0	10	2
2004	Total		2,088	\$52,248,101	\$20,637,854	24	0	94	7
2005									
	Alerted Occupants								
		Combination smoke - heat	133	\$9,088,330	\$1,479,147	5	0	2	0
		Heat	30	\$794,700	\$878,850	0	0	1	0
		More than 1 type present	70	\$942,760	\$330,545	0	0	0	0
		Other	7	\$300,500	\$122,000	0	0	0	0
		Smoke	1,539	\$40,354,343	\$15,851,677	22	0	84	6
		Sprinkler, water flow detection	82	\$1,211,450	\$6,627,485	2	0	7	0
		Undetermined	118	\$3,311,888	\$1,777,821	1	0	15	1
		Subtotal	1,979	\$56,003,971	\$27,067,525	30	0	109	7
	Failed to alert occupants								
		Combination smoke - heat	4	\$1,000	\$1,000	0	0	0	0
		More than 1 type present	1	\$0	\$0	0	0	0	0

Detection System Effectiveness, 2003-2007

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		Smoke	62	\$2,622,550	\$589,350	3	0	3	2
		Sprinkler, water flow detection	3	\$130,000	\$70,000	1	0	0	0
		Undetermined	7	\$90,600	\$76,251	0	0	0	0
		Subtotal	77	\$2,844,150	\$736,601	4	0	3	2
	No occupants								
		Combination smoke - heat	22	\$295,450	\$161,223	0	0	0	0
		Heat	5	\$65,000	\$22,500	0	0	0	0
		More than 1 type present	10	\$88,750	\$75,600	0	0	0	0
		Other	6	\$456,500	\$1,105,000	0	0	0	0
		Smoke	360	\$15,093,726	\$5,530,027	9	0	5	0
		Sprinkler, water flow detection	32	\$363,550	\$1,116,110	1	0	0	0
		Undetermined	28	\$2,116,815	\$1,575,977	1	0	0	0
		Subtotal	463	\$18,479,791	\$9,586,437	11	0	5	0
	Occupants failed to respond								
		Combination smoke - heat	4	\$1,001	\$602	0	0	0	0
		Heat	5	\$52,000	\$16,500	0	0	0	0
		More than 1 type present	3	\$15,500	\$15,000	0	0	2	0
		Other	1	\$100,000	\$50,000	0	0	0	0
		Smoke	50	\$2,554,100	\$537,415	2	0	9	1
		Sprinkler, water flow detection	4	\$6,200	\$5,010	0	0	0	0
		Undetermined	7	\$6,301	\$1,701	0	0	1	0
		Subtotal	74	\$2,735,102	\$626,228	2	0	12	1
	Undetermined								
		Combination smoke - heat	6	\$161,050	\$105,600	0	0	0	0
		Heat	4	\$600	\$500	0	0	0	0
		More than 1 type present	5	\$5,500	\$5,000	0	0	0	0
		Other	1	\$10,000	\$0	0	0	0	0
		Smoke	169	\$9,144,850	\$3,151,461	1	0	13	3
		Sprinkler, water flow detection	5	\$110,100	\$6,155,000	0	0	0	0
		Undetermined	25	\$785,750	\$220,300	2	0	3	0
		Subtotal	215	\$10,217,850	\$9,637,861	3	0	16	3
2005	Total		2,808	\$90,280,864	\$47,654,652	50	0	145	13

2006

Alerted Occupants

Detection System Effectiveness, 2003-2007

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		Combination smoke - heat	112	\$2,548,130	\$981,122	0	0	6	1
		Heat	21	\$83,600	\$29,950	0	0	0	0
		More than 1 type present	66	\$1,154,400	\$829,110	0	0	0	0
		Other	16	\$294,050	\$98,500	0	0	0	0
		Smoke	1,265	\$30,178,945	\$10,744,156	15	0	64	4
		Sprinkler, water flow detection	72	\$2,132,700	\$434,850	0	0	1	0
		Undetermined	201	\$2,181,945	\$724,417	0	0	12	0
		Subtotal	1,753	\$38,573,770	\$13,842,105	15	0	83	5
	Failed to alert occupants								
		Heat	2	\$400,000	\$105,000	0	0	0	0
		More than 1 type present	2	\$1,500	\$0	0	0	0	0
		Smoke	59	\$2,704,750	\$822,600	1	0	3	0
		Undetermined	7	\$370,500	\$185,400	0	0	0	0
		Subtotal	70	\$3,476,750	\$1,113,000	1	0	3	0
	No occupants								
		Combination smoke - heat	15	\$260,250	\$69,500	0	0	0	0
		Heat	3	\$332,000	\$55,200	0	0	0	0
		More than 1 type present	12	\$649,500	\$1,048,500	0	0	0	0
		Other	4	\$100,030	\$40,025	0	0	0	0
		Smoke	328	\$11,928,937	\$4,722,959	3	0	0	0
		Sprinkler, water flow detection	31	\$724,500	\$1,149,000	0	0	0	0
		Undetermined	27	\$503,700	\$186,660	2	0	0	0
		Subtotal	420	\$14,498,917	\$7,271,844	5	0	0	0
	Occupants failed to respond								
		Combination smoke - heat	5	\$58,000	\$18,000	0	0	0	0
		More than 1 type present	4	\$0	\$1,000	0	0	0	0
		Other	1	\$10	\$10	0	0	0	0
		Smoke	38	\$427,750	\$117,845	1	0	6	1
		Sprinkler, water flow detection	4	\$34,500	\$33,500	0	0	0	0
		Undetermined	6	\$10,151	\$5,046	0	0	0	0
		Subtotal	58	\$530,411	\$175,401	1	0	6	1
	Undetermined								
		Combination smoke - heat	9	\$935,000	\$238,000	0	0	0	0
		Heat	3	\$2,500	\$250	0	0	0	0
		More than 1 type present	5	\$870,000	\$410,500	0	0	0	0

Detection System Effectiveness, 2003-2007

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		Other	1	\$20,000	\$80,000	0	0	0	0
		Smoke	137	\$6,789,926	\$2,857,870	7	0	9	0
		Sprinkler, water flow detection	6	\$100,103,000	\$480,200	0	0	0	0
		Undetermined	21	\$3,361,700	\$1,344,515	8	0	3	1
		Subtotal	182	\$112,082,126	\$5,411,335	15	0	12	1
	2006	Total	2,483	\$169,161,974	\$27,813,685	37	0	104	7
	2007								
	Alerted Occupants								
		Combination smoke - heat	95	\$1,185,788	\$362,380	1	0	2	0
	Heat	15	\$1,428,000	\$238,000	0	0	0	0	
	More than 1 type present	52	\$789,200	\$608,330	0	0	3	0	
	Other	23	\$929,670	\$358,050	0	0	2	0	
	Smoke	1,122	\$29,975,926	\$9,335,651	8	0	41	4	
	Sprinkler, water flow detection	73	\$765,063	\$2,721,965	0	0	0	0	
	Undetermined	177	\$3,369,091	\$943,255	2	0	3	1	
	Subtotal	1,557	\$38,442,738	\$14,567,631	11	0	51	5	
Failed to alert occupants									
	Combination smoke - heat	1	\$3,000	\$500	0	0	0	0	
	Heat	1	\$100,000	\$30,000	0	0	0	0	
	Smoke	40	\$1,475,000	\$434,950	2	0	2	0	
	Sprinkler, water flow detection	3	\$510,000	\$10,030,000	0	0	0	0	
	Undetermined	2	\$751,000	\$400,000	1	0	0	0	
	Subtotal	47	\$2,839,000	\$10,895,450	3	0	2	0	
No occupants									
	Combination smoke - heat	14	\$1,178,500	\$587,150	0	0	0	0	
	Heat	3	\$180,000	\$360,000	1	0	0	0	
	More than 1 type present	11	\$904,500	\$671,000	0	0	0	0	
	Other	7	\$1,180,000	\$593,000	0	0	0	0	
	Smoke	244	\$8,566,590	\$3,131,240	8	0	2	0	
	Sprinkler, water flow detection	16	\$451,500	\$481,000	0	0	0	0	
	Undetermined	21	\$949,100	\$355,550	0	0	1	0	
	Subtotal	316	\$13,410,190	\$6,178,940	9	0	3	0	
Occupants failed to respond									
	Combination smoke - heat	4	\$9,700	\$3,000	0	0	0	0	

Detection System Effectiveness, 2003-2007

<u>Incident Year</u>	<u>Detector Effectiveness</u>	<u>Detector Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Heat	1	\$250,000	\$30,000	0	0	0	0
		More than 1 type present	2	\$3,000	\$2,000	0	0	1	0
		Smoke	54	\$1,244,615	\$297,012	2	0	11	2
		Sprinkler, water flow detection	4	\$96,500	\$46,500	1	0	1	0
		Undetermined	3	\$5,200	\$100	0	0	0	0
		Subtotal	68	\$1,609,015	\$378,612	3	0	13	2
	Undetermined	Combination smoke - heat	5	\$608,500	\$178,800	0	0	0	0
		More than 1 type present	1	\$1,000	\$200,000	0	0	0	0
		Other	3	\$35,000	\$13,000	0	0	0	0
		Smoke	131	\$3,062,151	\$960,156	2	0	8	4
		Sprinkler, water flow detection	2	\$30,000	\$115,000	0	0	0	0
		Undetermined	14	\$1,008,000	\$225,250	1	0	0	0
		Subtotal	156	\$4,744,651	\$1,692,206	3	0	8	4
2007	Total		2,144	\$61,045,594	\$33,712,839	29	0	77	11
	Grand Total		10,978	\$403,903,867	\$149,089,394	175	0	476	44

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.